

UNITED STATES DEPARTMENT OF AGRICULTURE
RURAL ELECTRIFICATION ADMINISTRATION
WASHINGTON 25, D. C.

April 22, 1952

POWER MEMORANDUM 338

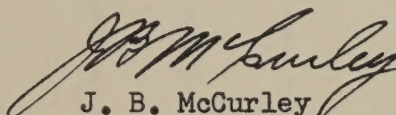
SUBJECT: Semimonthly Report of Preconstruction Progress on
Transmission Lines - REA Form PWR-43.

The purpose of the Semimonthly Report of Preconstruction Progress on Transmission Lines, REA Form PWR-43, copy attached, is to provide the engineer with an effective and standardized method of reporting preconstruction transmission line progress.

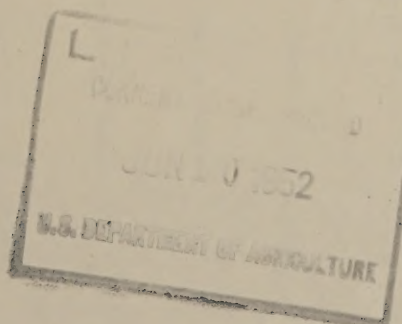
Heretofore, REA has not made available to engineers a form for reporting this activity. However, we have been requested by borrowers and their engineers to furnish a standard form for this purpose, rather than have the borrower, the engineer, and REA work out on an individual basis a satisfactory means of reporting preconstruction progress.

It is the responsibility of the borrower's engineer to prepare and distribute this form semimonthly from the time the route is selected until all preconstruction work is completed.

Copies of Semimonthly Report of Preconstruction Progress on Transmission Lines, REA Form PWR-43, may be obtained from REA upon request.


J. B. McCurley
Chief, Power Division

Attachment



THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
CHICAGO, ILLINOIS 60637

RESEARCH REPORT

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
CHICAGO, ILLINOIS 60637

The purpose of this research is to study the effect of temperature on the rate of reaction between hydrogen peroxide and potassium iodide. The reaction is as follows:

2H₂O₂ + 2KI → 2H₂O + 2KOH + I₂

The rate of reaction was measured by the volume of iodine gas evolved over a period of time. The results show that the rate of reaction increases with increasing temperature.

It is concluded that the rate of reaction between hydrogen peroxide and potassium iodide is directly proportional to the temperature. This is in agreement with the Arrhenius equation.

Further research is needed to determine the activation energy of this reaction. This will be done in a future report.

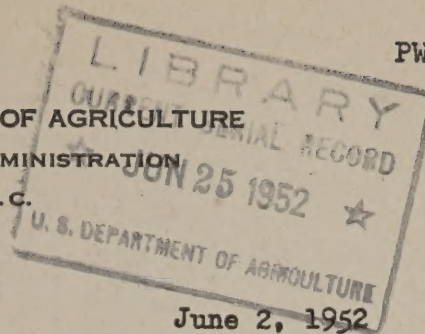
THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
CHICAGO, ILLINOIS 60637

100

1.933
P872

copy 2

UNITED STATES DEPARTMENT OF AGRICULTURE
RURAL ELECTRIFICATION ADMINISTRATION
WASHINGTON 25, D. C.



PWR-339

POWER MEMORANDUM 339

SUBJECT: Engineer's Semimonthly Report of Substation Progress,
REA Form PWR-44

The purpose of the Engineer's Semimonthly Report of Substation Progress, REA Form PWR-44, copy attached, is to provide the engineer with an effective and standardized method of reporting engineering services and construction progress of substations and switching stations.

It is the responsibility of the borrower's engineer, under the terms of the engineering service contract, to furnish progress reports to the borrower and REA. Heretofore, REA has not made available to engineers a form for reporting this activity. However, we have been requested by borrowers and their engineers to furnish a standard form for this purpose, rather than have the borrower, the engineer, and REA work out on an individual basis a satisfactory means of reporting substation and switching station progress.

The form provides space for reporting progress on four separate substations or switching stations. When the engineer is reporting on a greater number of such facilities, additional sets of forms will be required. The manner of furnishing the required information should be evident upon examination of the form. Installation of buses should be included as a part of the item "Fuses and Switches." Construction of control houses should be included as part of the item "Meter, Relays, Control Wiring."

The borrower's engineer should prepare this report semimonthly from the time the engineering work commences until the substation or switching station is energized. Prior to construction, this form should be executed by the borrower and engineer in the spaces provided. During construction, an authorized representative of the contractor should also execute the form.

Copies of Engineer's Semimonthly Report of Substation Progress, REA Form PWR-44, may be obtained from REA upon request.

J. B. McCurley
Chief, Power Division

Attachment

FORM PWR-44 (3-52)		U.S. DEPARTMENT OF AGRICULTURE RURAL ELECTRIFICATION ADMINISTRATION		BUDGET BUREAU NO. 40-R2398 APPROVAL EXPIRES FEBRUARY 28, 1954		PROJECT DESIGNATION			
ENGINEER'S SEMI-MONTHLY REPORT OF SUBSTATION PROGRESS									
To: U.S. DEPARTMENT OF AGRICULTURE, REA, WASHINGTON 25, D.C., Attn: POWER DIVISION									
INSTRUCTIONS: Prepare 3 copies. Original to REA, 1 copy to Borrower, 1 copy to Contractor.									
ITEM				PROGRESS OF CONSTRUCTION BY SUBSTATION					
NAME OF SUBSTATION									
TYPE-TRANSMISSION-DIST.-SWITCHING									
CAPACITY (KVA) - CLASS (Voltage)									
SITE SELECTED (Yes or No)									
TITLE CLEARED (Yes or No)									
SITE PURCHASED (Yes or No)									
SITE STAKED (Yes or No)									
PLANS & SPECS. APPR. BY REA (Yes or No)									
RELEASED FOR CONSTRUCTION (Yes or No)									
*PER CENT COMPLETION				25	50	75	25	50	75
GRADING									
FOUNDATIONS									
GROUNDING NETWORK									
STEEL ERECTION									
FUSES & SWITCHES									
TRANSFORMERS, O.C.B. REGULATORS									
METER, RELAYS, CONTROL WIRING									
FENCE									
FINAL INSPECTION & CLEAN UP									
DELIVERY UNDER CONTRACT				NO.	DEL. DATE	NO.	DEL. DATE	NO.	DEL. DATE
STRUCTURES									
TRANSFORMERS									
O.C.B.									
METERING									
ITEM				DATE		DATE		DATE	
CONSTRUCTION STARTED				SCHEDULED	ACTUAL	SCHEDULED	ACTUAL	SCHEDULED	ACTUAL
CONSTRUCTION COMPLETED									
ENERGIZED									
CONSTRUCTION DELAY				NO. OF DAYS		NO. OF DAYS		NO. OF DAYS	
THIS PERIOD									
TOTAL FOR CONTRACT OR WORK ORDER									
REASONS FOR DELAY (Material, weather, Labor, etc.)									
CONTRACTOR				SYSTEM MANAGER (If Force Acc't. Construction)		ENGINEER			
APPROVALS				DATE		RESIDENT ENGINEER			

* Fill in block to indicate: Per cent completed to period of report Per cent completed during period of report xxxxxx

